

1 Claims

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3 1. Method for packet-switched data transmission in a self-
4 organizing radio network with at least one first and one second
5 radio coverage area together with at least one mobile communi-
6 cation device for each radio coverage area, whereby a first de-
7 vice is operated in the first radio coverage area, and a second
8 device in the second radio coverage area, for the purpose of
9 central control of the assignment of the transmission channels
10 assigned to the radio coverage area concerned, and mobile com-
11 munication devices are operated both in the first and also in
12 the second radio coverage area as intermediate stations, for
13 forwarding to the second radio coverage area data originating
14 in the first radio coverage area, characterized in that the
15 forwarding takes place in such a way that the first central
16 control device controls the transmission channels available to
17 the first radio coverage area, both for the transmission of
18 data between the first central control device and the interme-
19 diate station and also for the transmission of data between the
20 intermediate station and the second central control device.

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22 2. Method in accordance with claim 1, characterized in that
23 the control data which is appended is transmitted by the first
24 central control device on a separate transmission channel, in
25 particular an FCH channel.

26
27 3. Method in accordance with claim 1, characterized in that
28 if the FCH channel cannot be received by the second central
29 control device, the intermediate station appends to the data
30 which is to be forwarded control data for the second central
31 control device.

32
33 4. Method in accordance with one of the claims 1 to 3, char-
34 acterized in that to the control data is added at least the ad-
35 dress of the second central control device and/or the format of
36 the data to be forwarded.

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1 5. Method in accordance with one of the claims 1 to 4, char-
2 acterized in that the control data is analyzed by the interme-
3 diate station.

4
5 6. Method in accordance with one of the claims 1 to 4, char-
6 acterized in that the control data is analyzed by the second
7 central control device.

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9 7. Method in accordance with one of the preceding claims,
10 characterized in that the radio network is operated using cen-
11 tral medium access control in accordance with the IEEE802.11
12 standard, IEEE802.16, Hiperlan/2 or standards which are deriva-
13 tives of these.

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15 8. Intermediate station for carrying out the method in accor-
16 dance with one of the preceding claims.

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18 9. Central control device for carrying out the method in ac-
19 cordance with one of the claims 1 to 6.